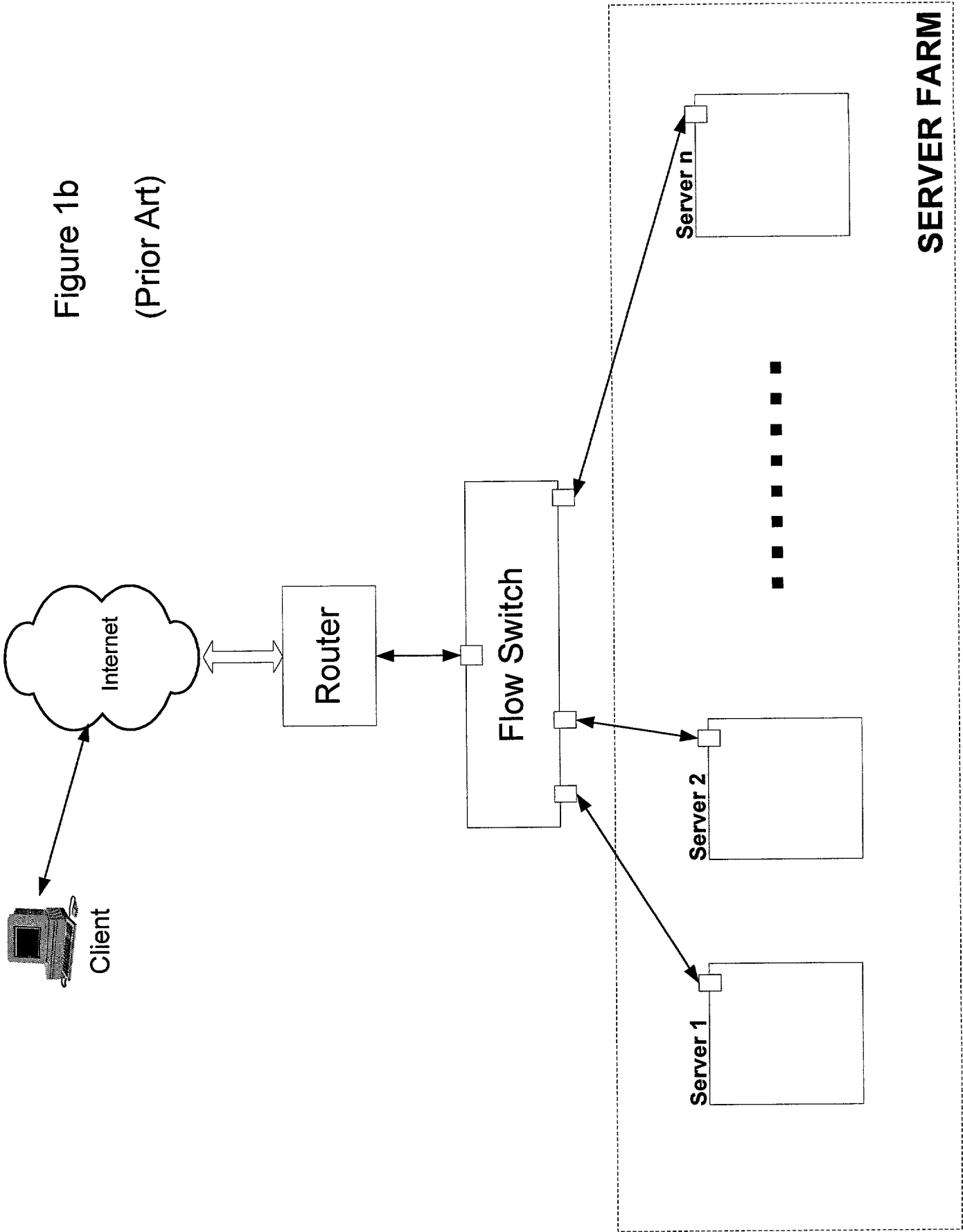


Figure 1a

FIG. 1a

FIG. 1b

Figure 1b  
(Prior Art)



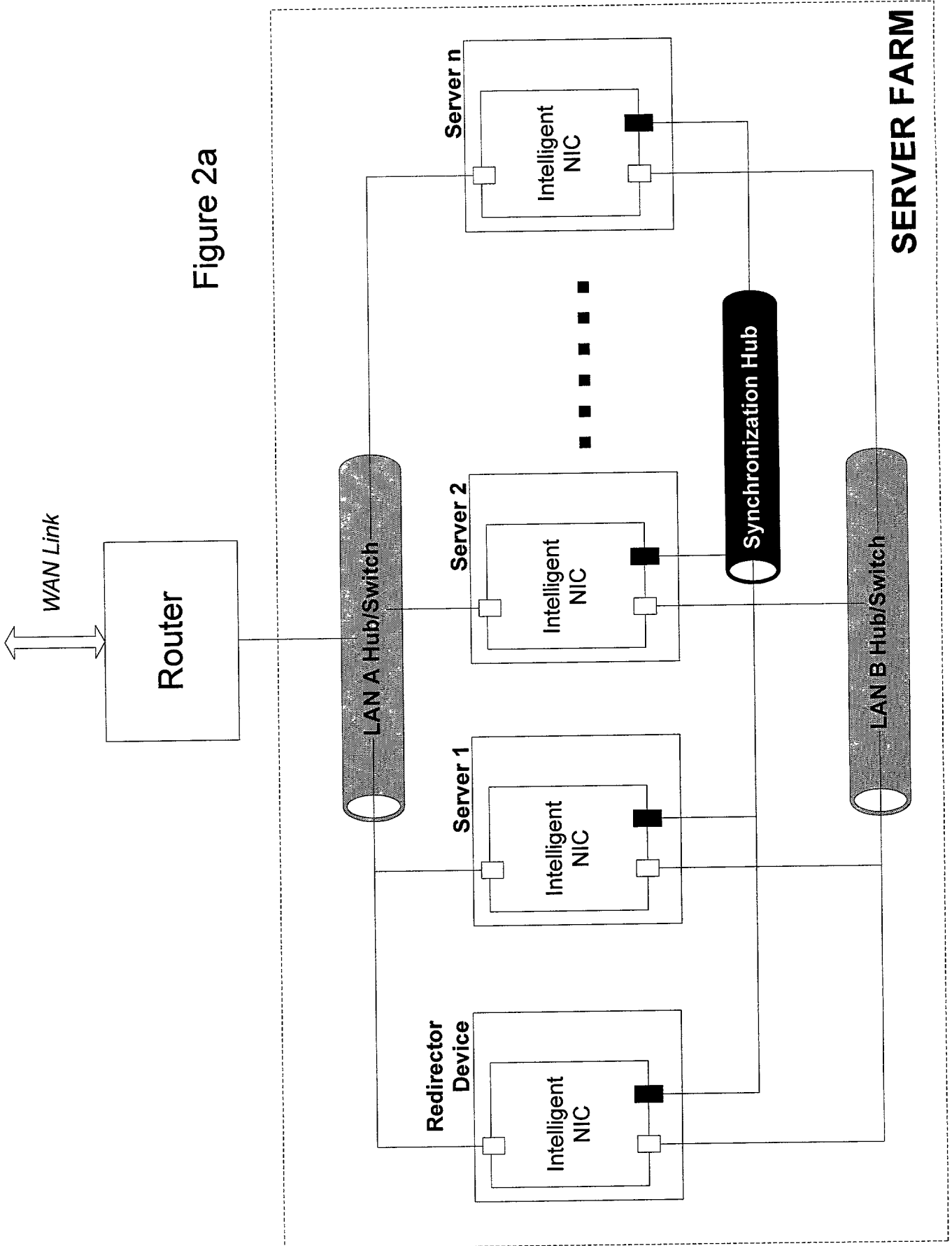


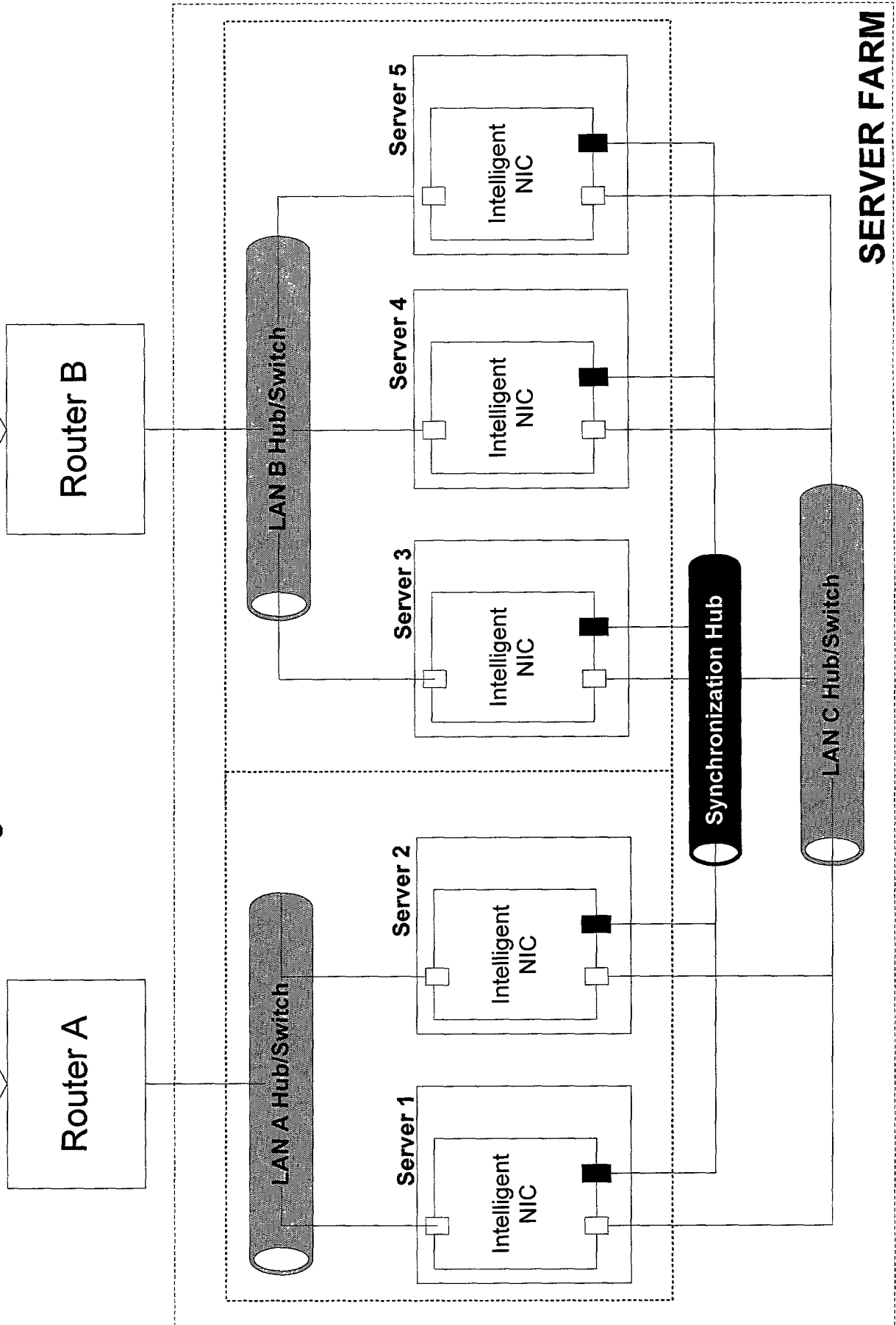
Figure 2a

TT090" 28224350

Internet Connection (e.g., ISP2)

Internet Connection (e.g., ISP1)

Figure 2b



"FIGURE 2c" 29820.12

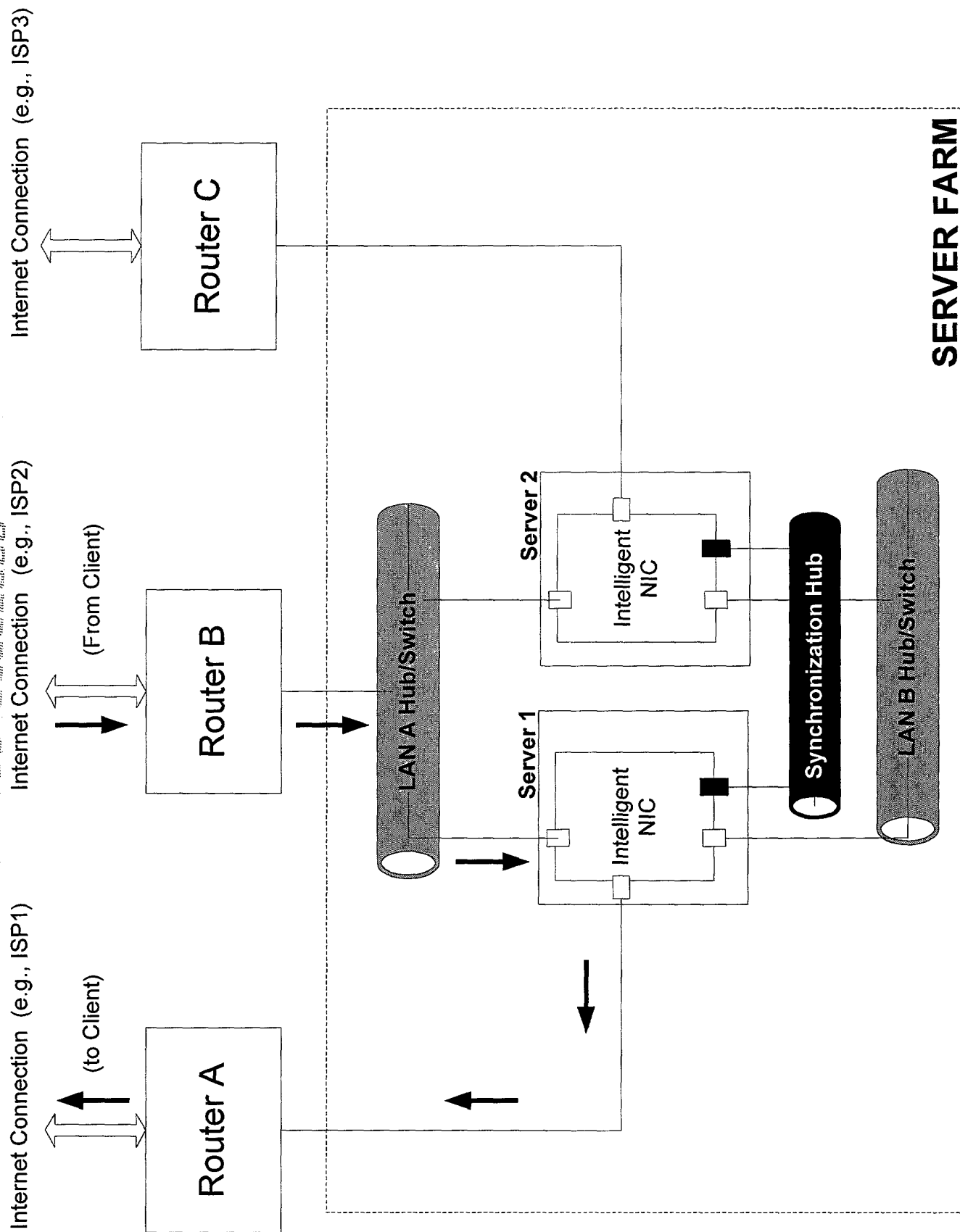
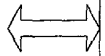


Figure 2c

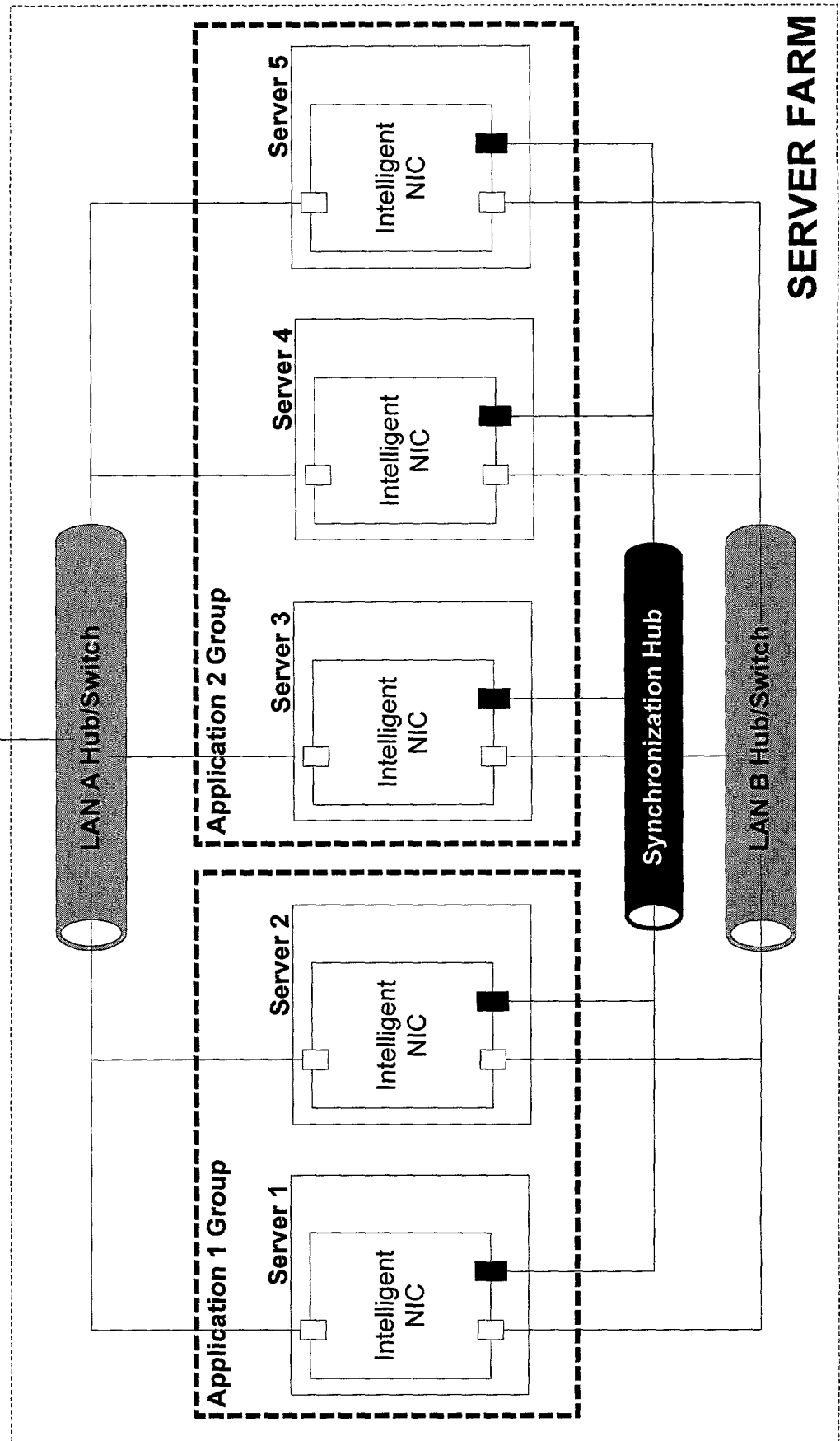
FOIA b 7 - Exemption

Internet Connection



Router A

Figure 2d



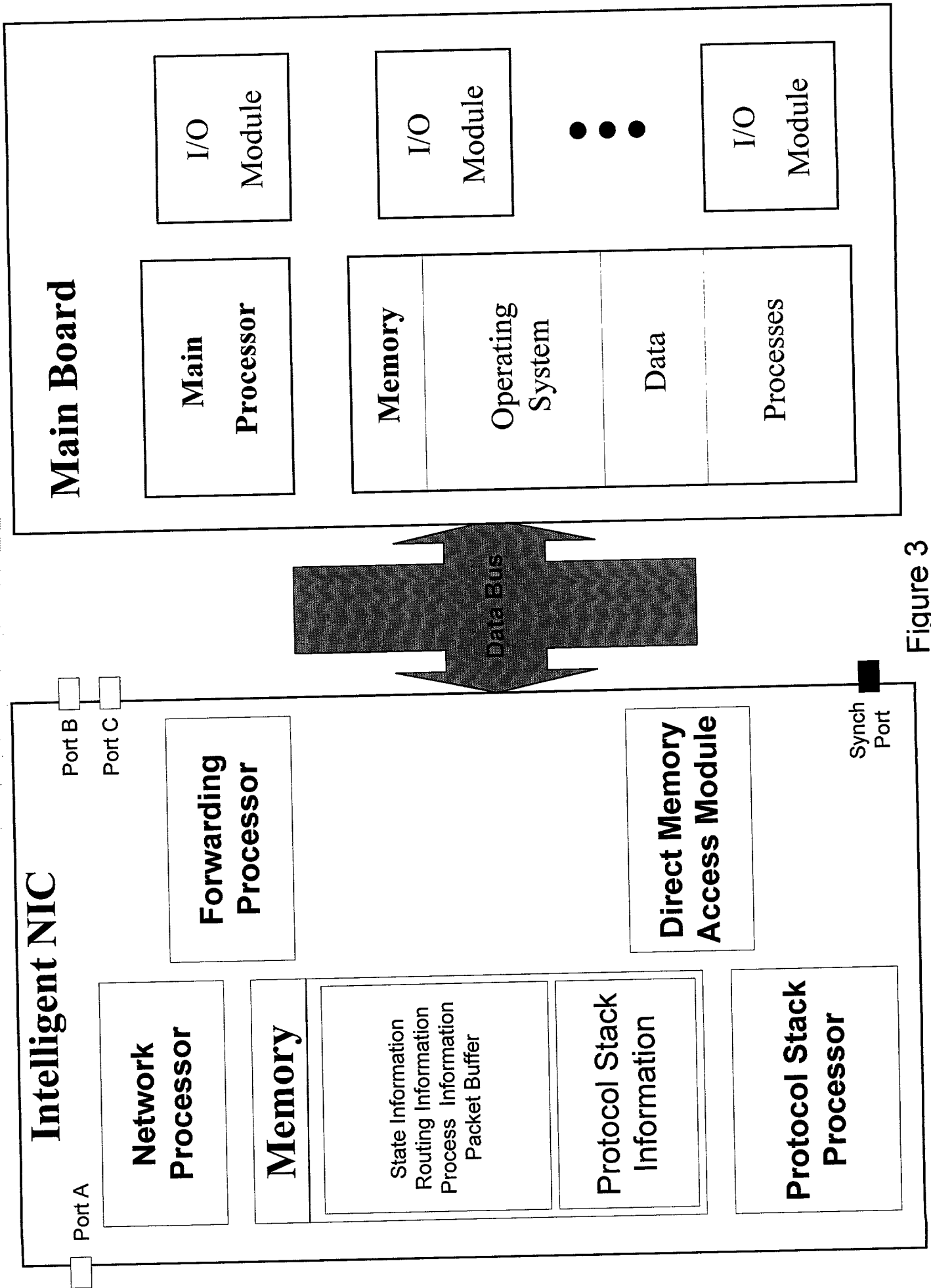


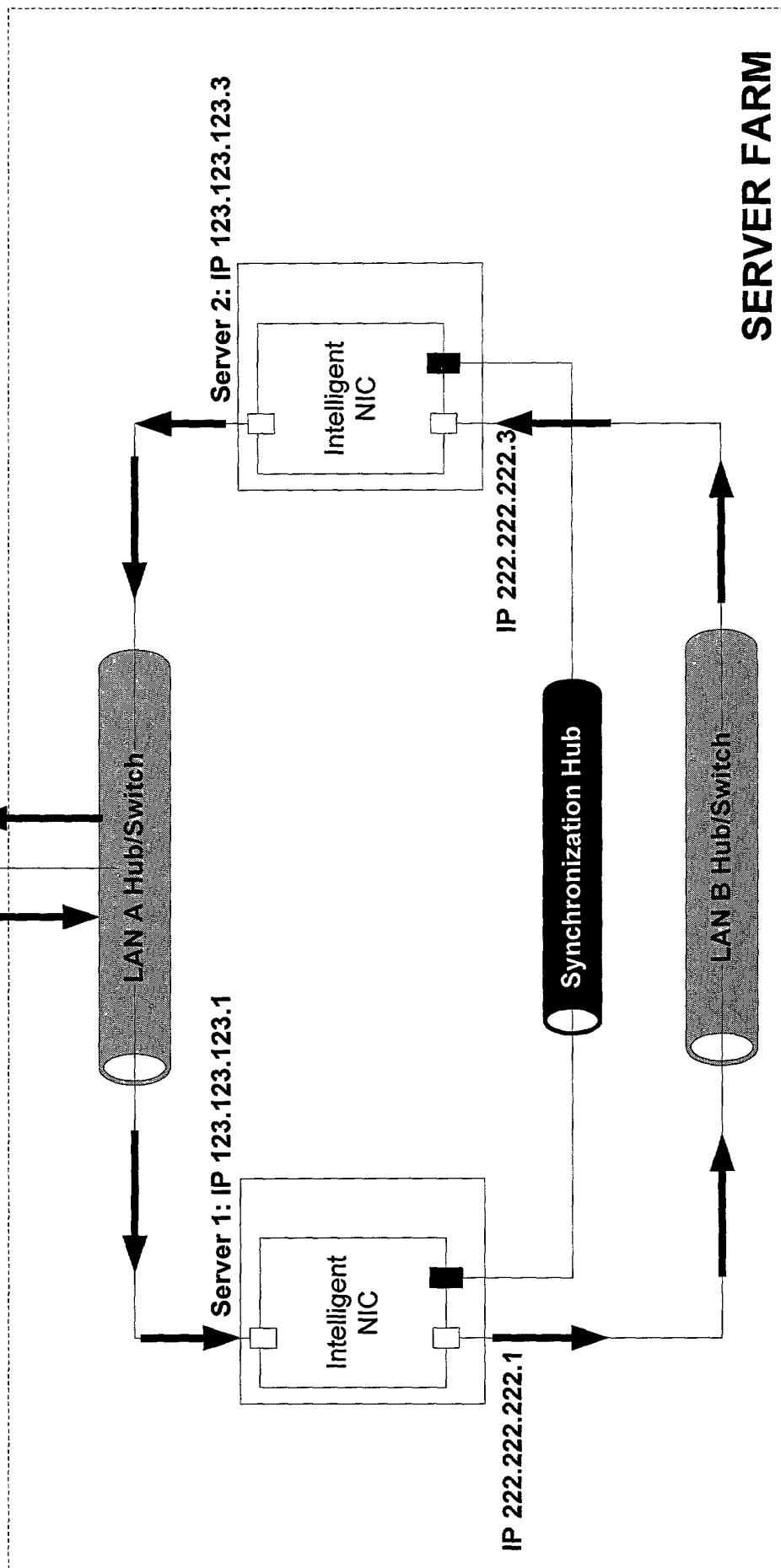
Figure 3

FIG. 4a

Internet Connection

Client Request to Server 1:  
123.123.123.1

Figure 4a

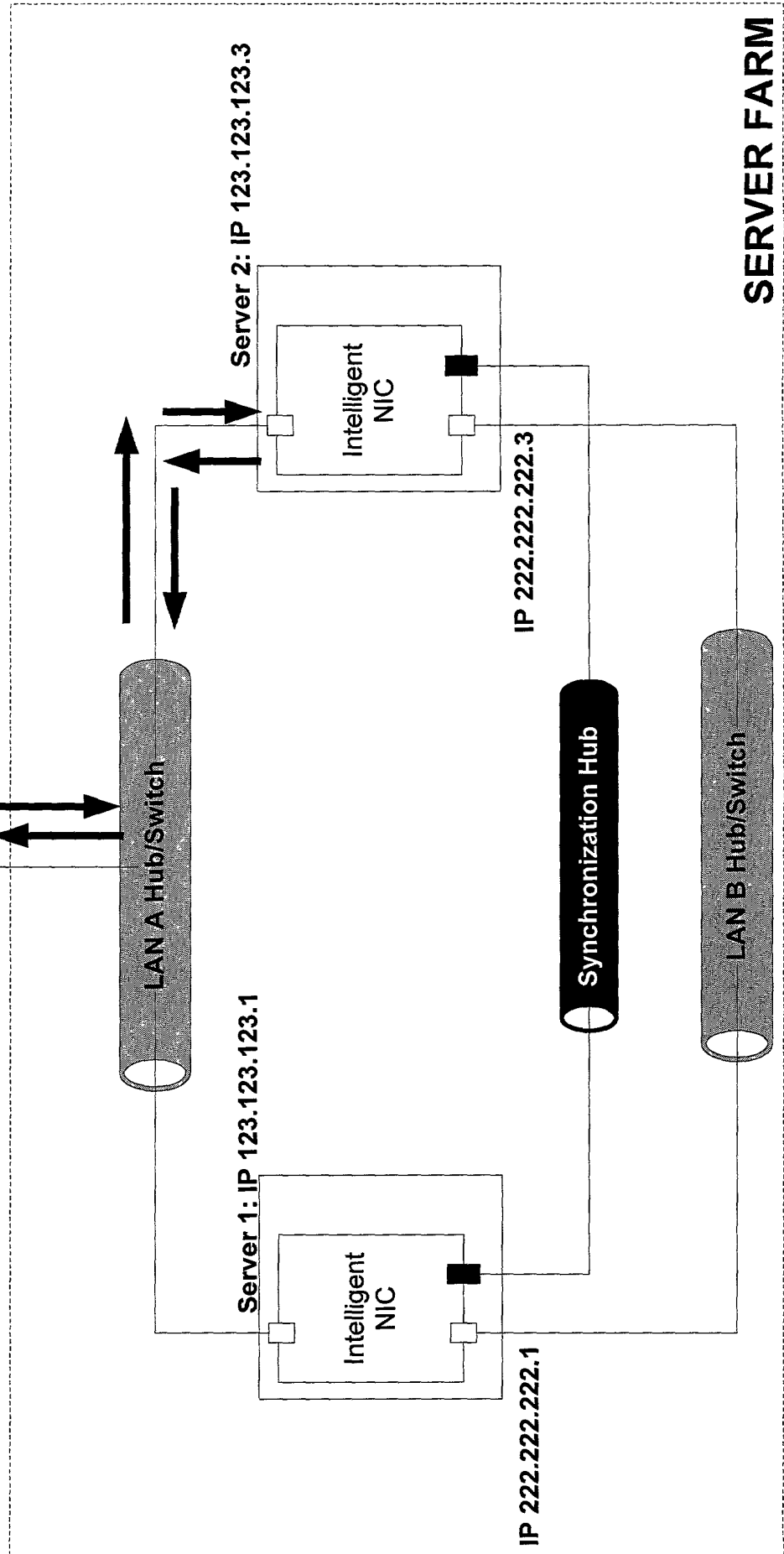


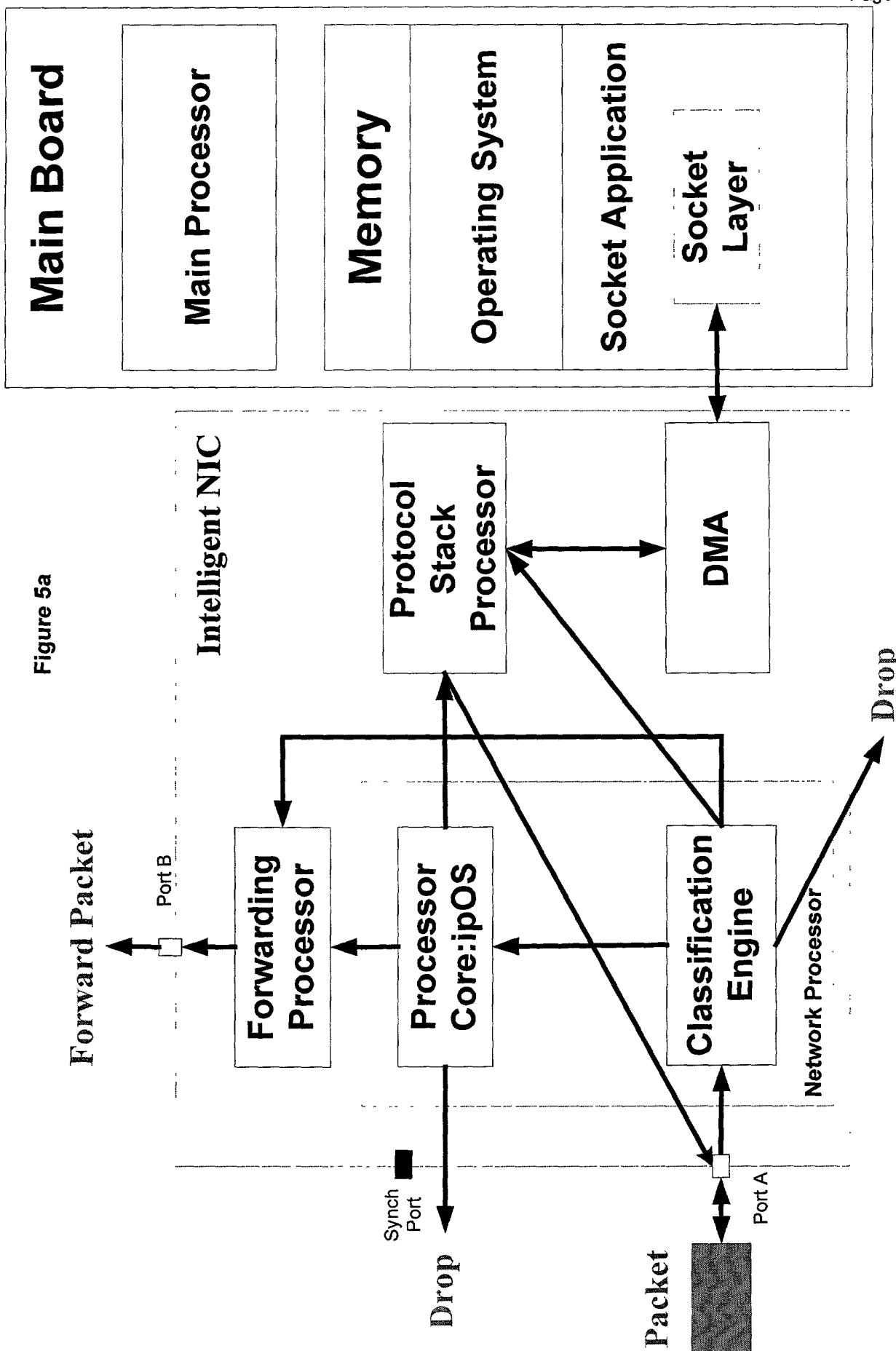


Internet Connection

Client Request to Server 2:  
123.123.123.3

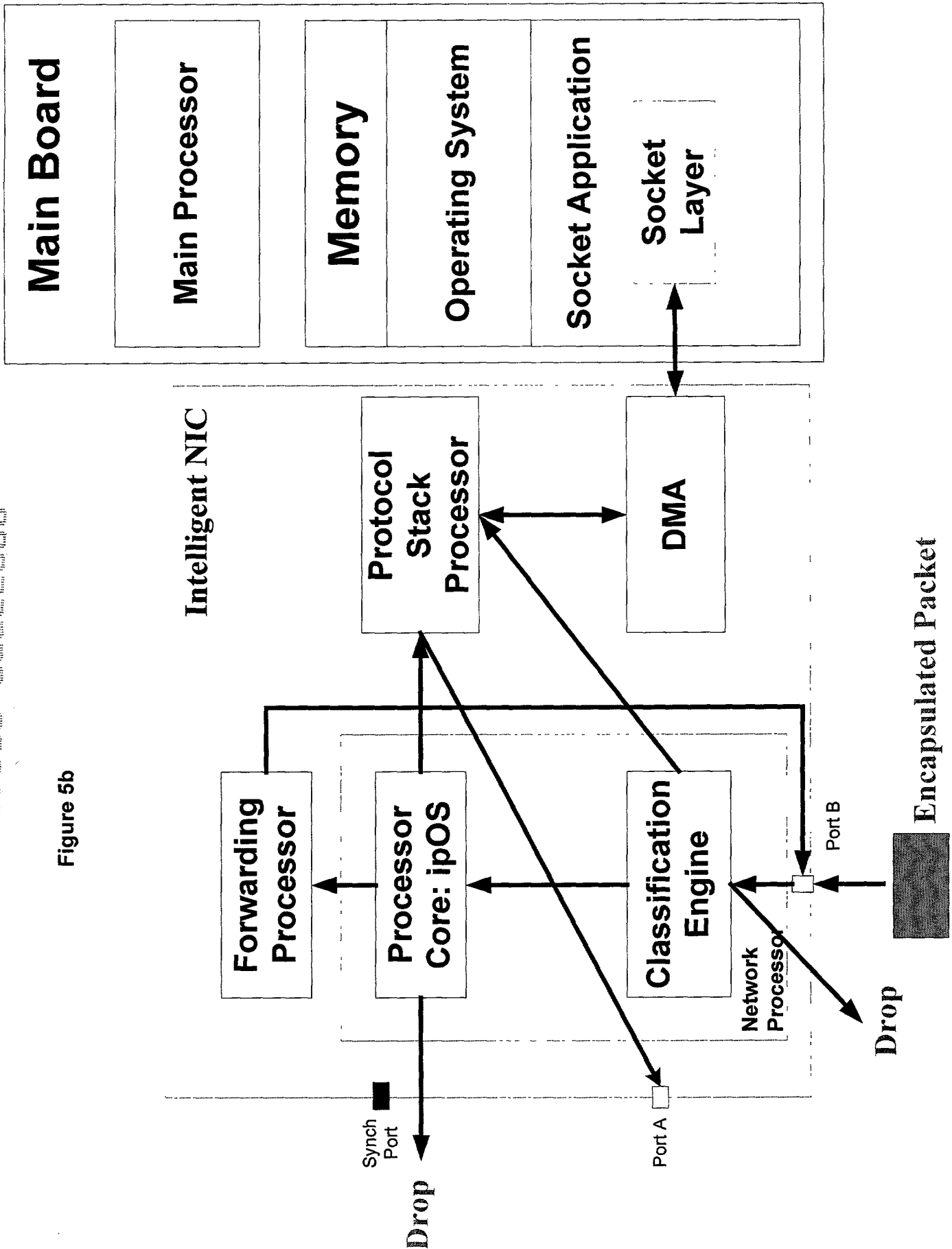
Figure 4b





FOIA b 7 - DEX-2860

Figure 5b



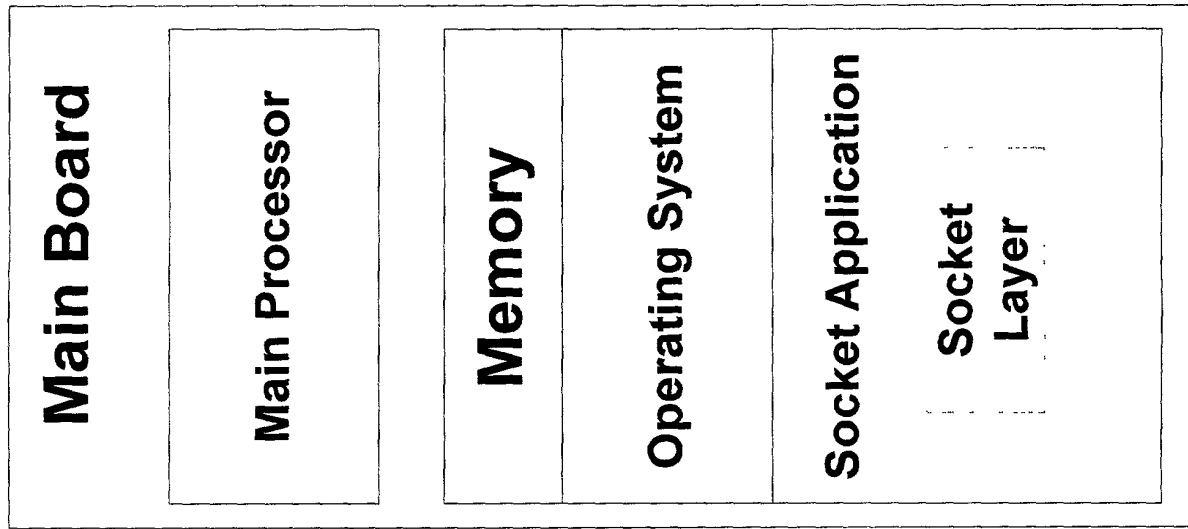


Figure 5c

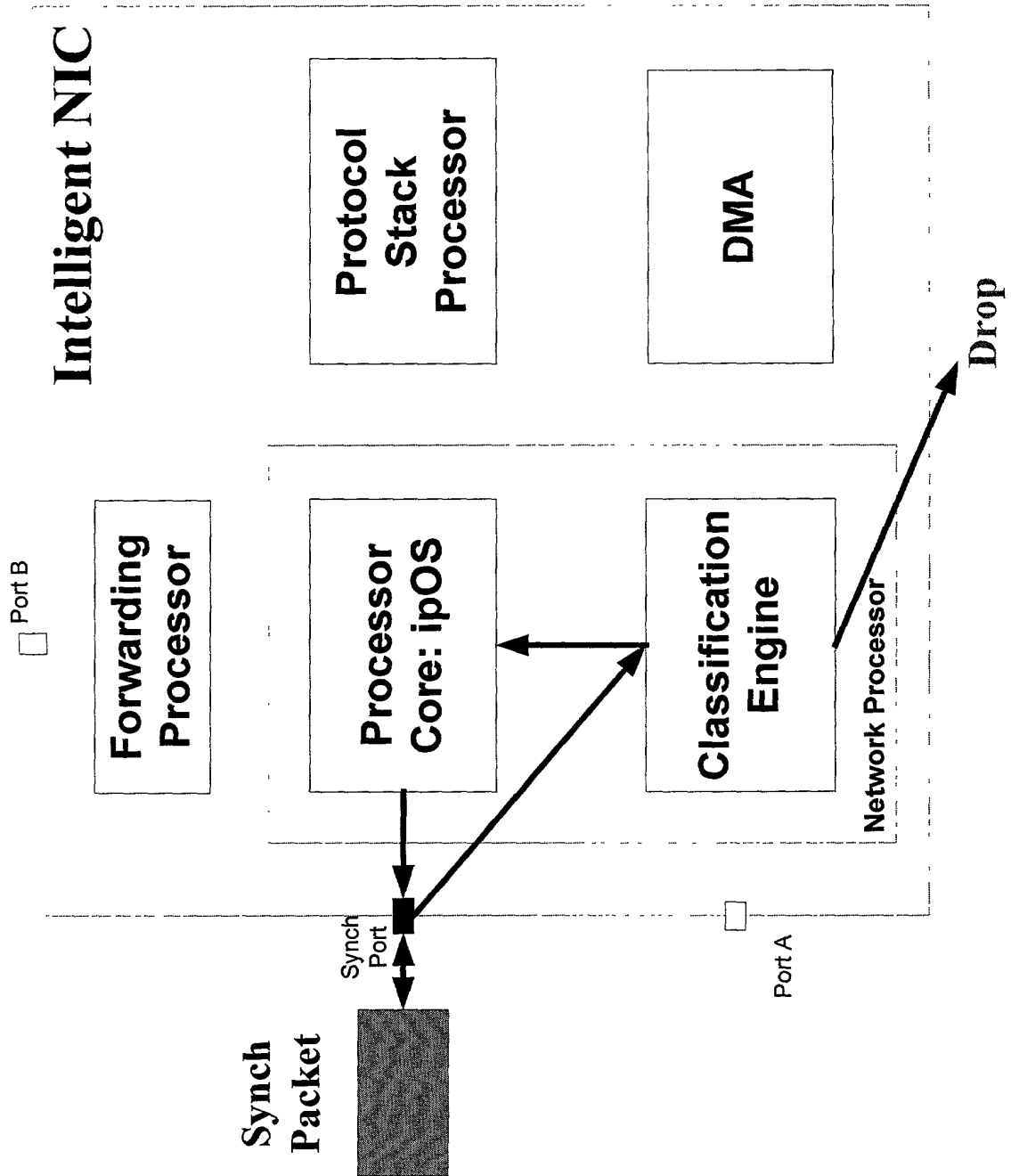


TABLE 2.1.1

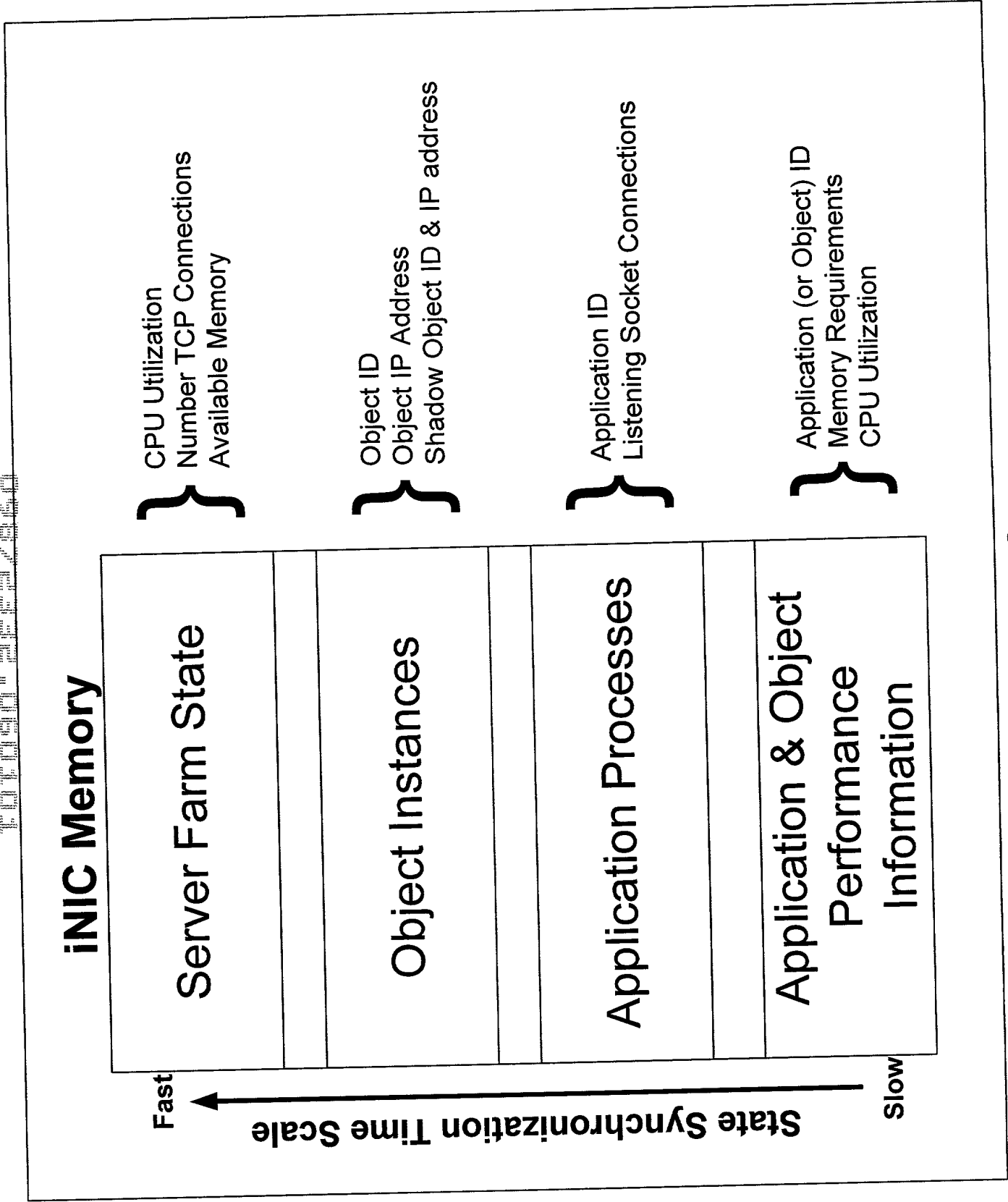


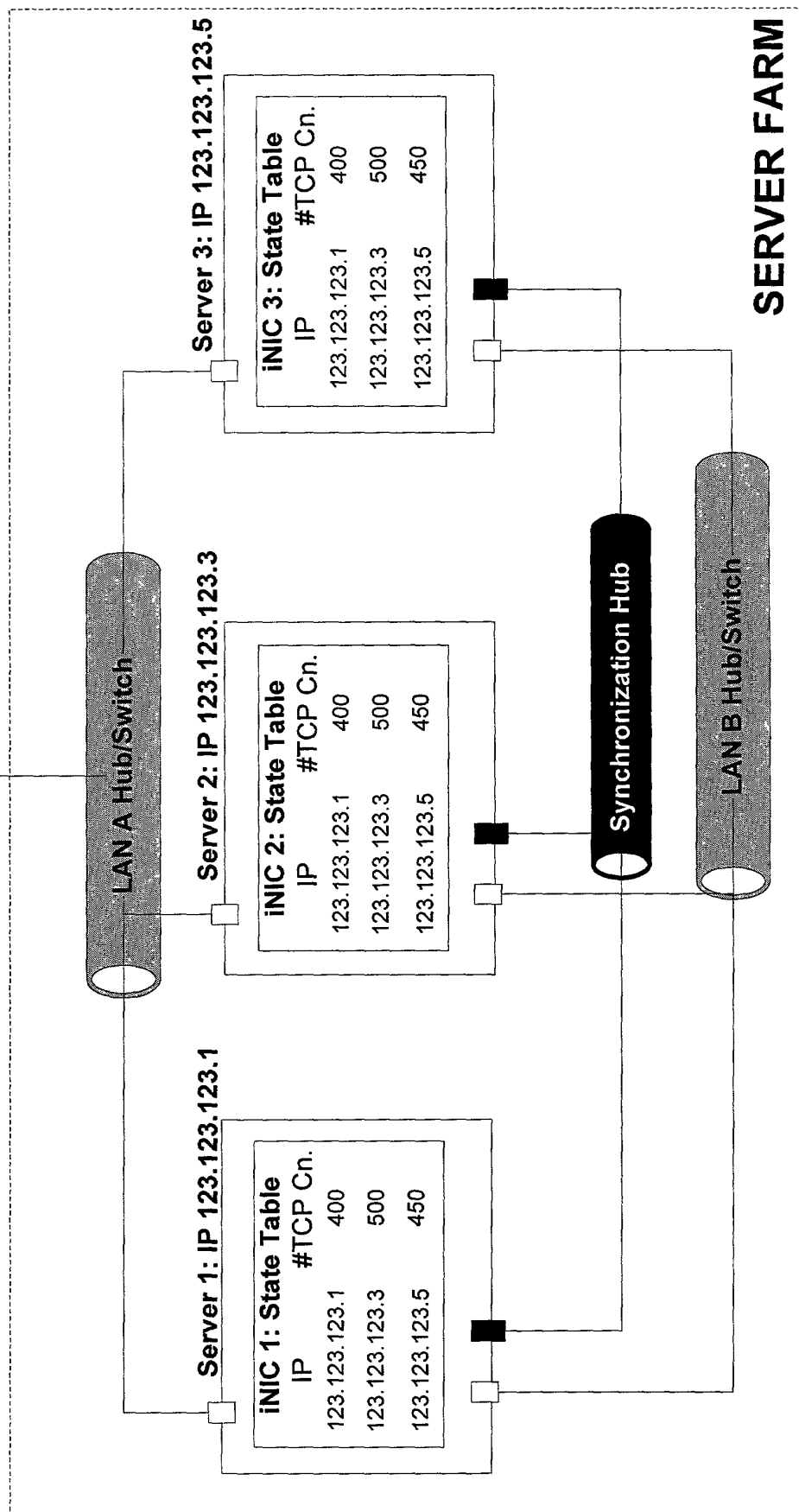
Figure 6

“2000” 2000-2000

Internet Connection

Client Request to Server 1:  
123.123.123.1

Figure 7



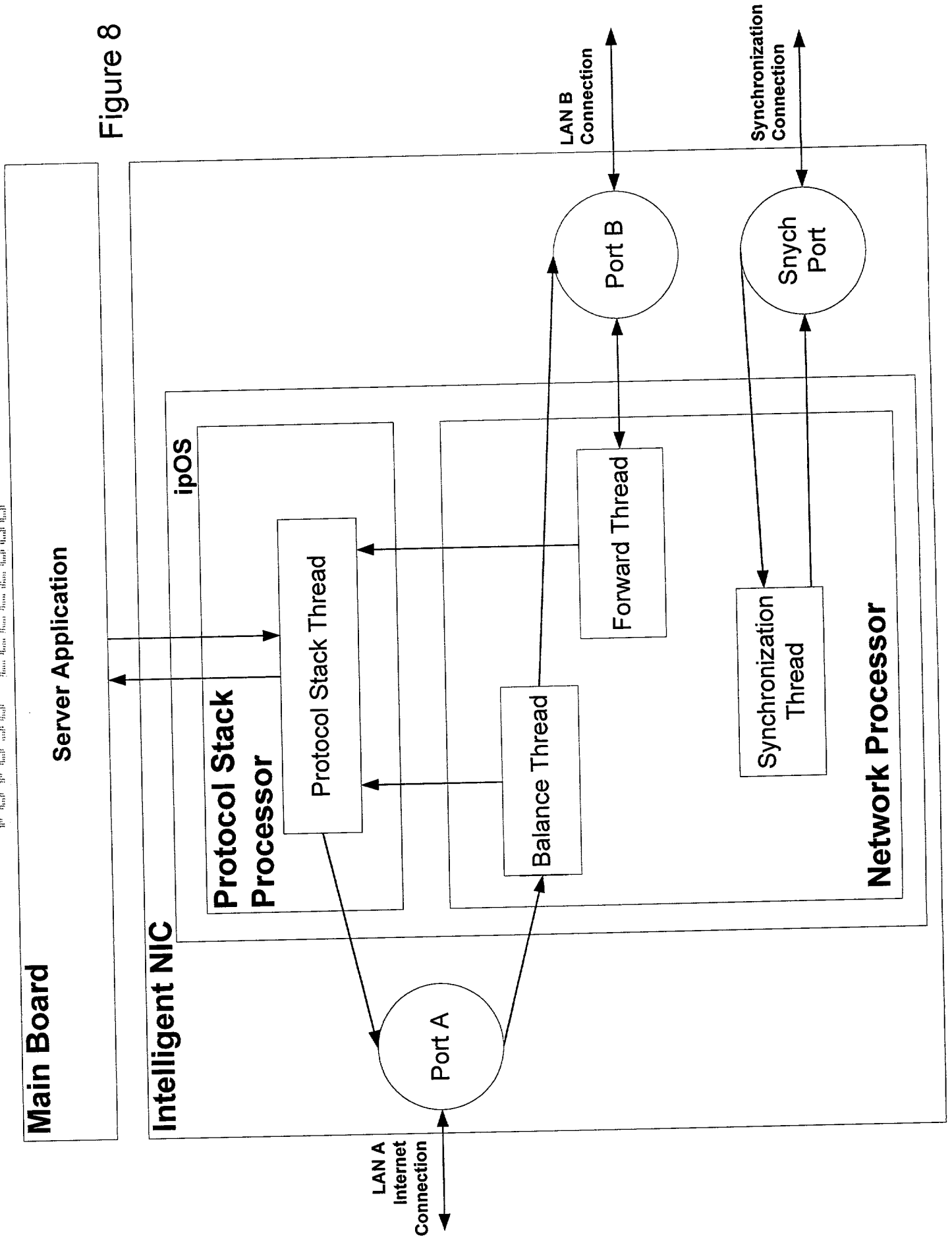


Figure 8

Figure 9a

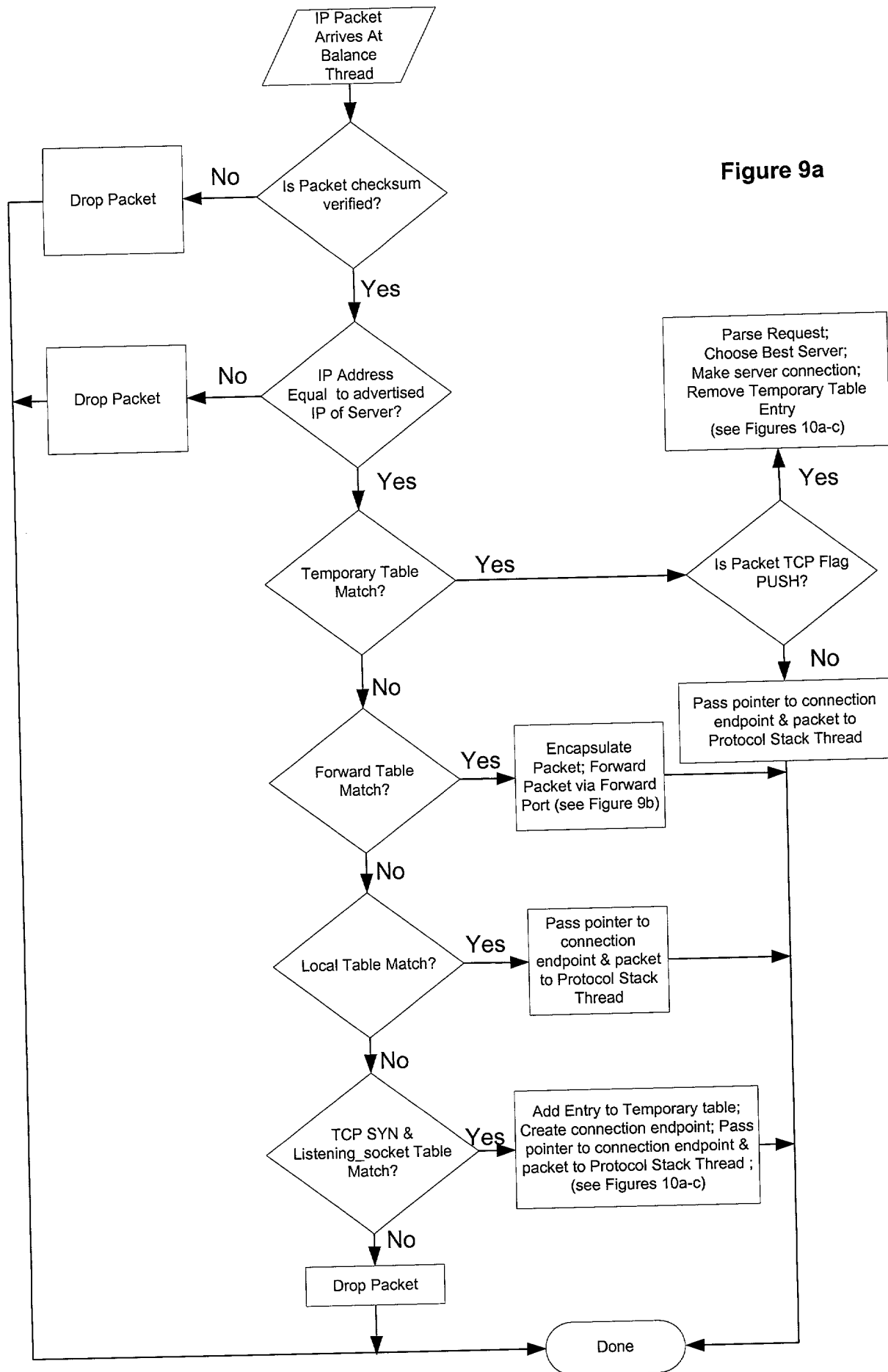




Figure 9b

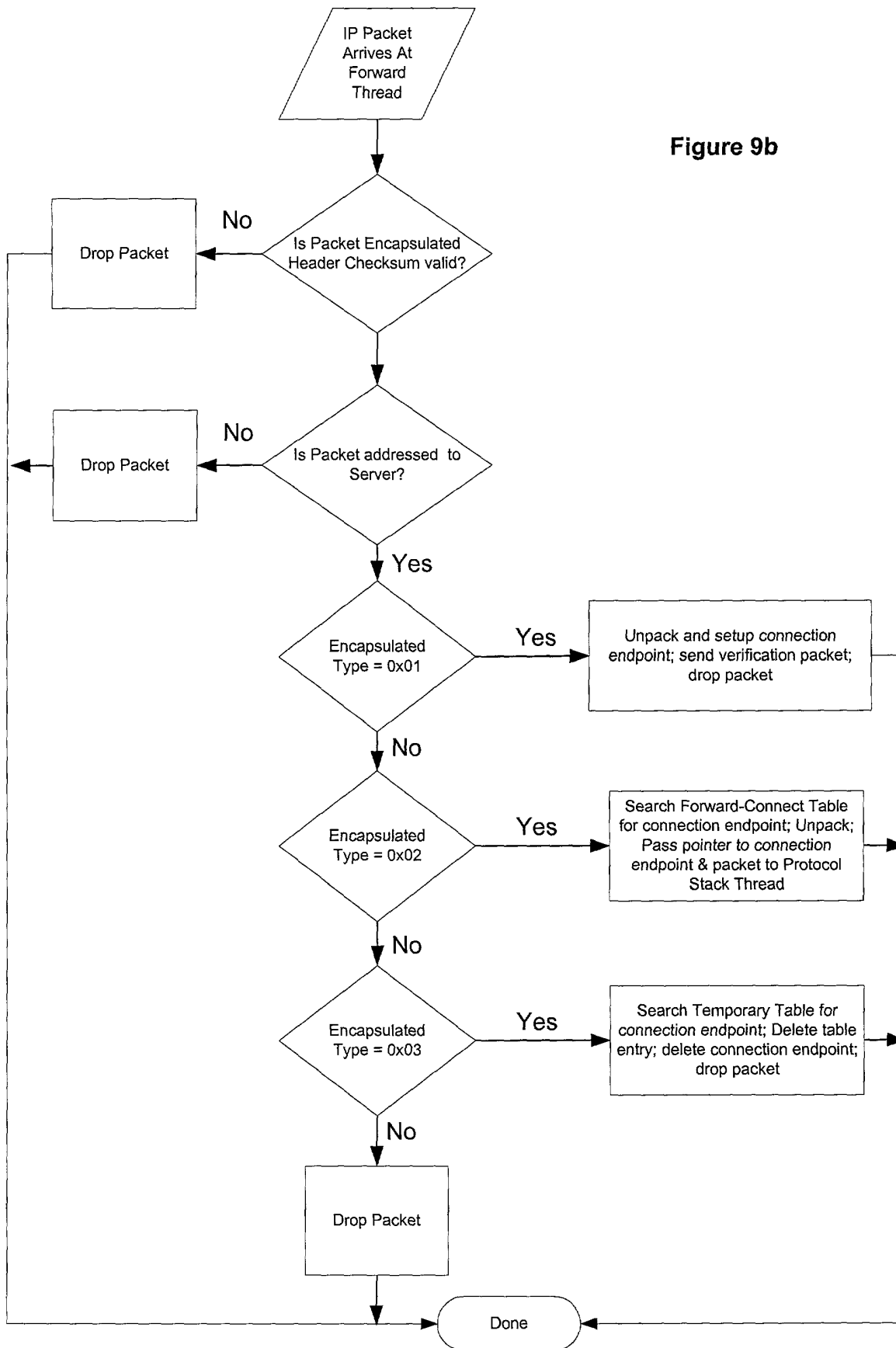
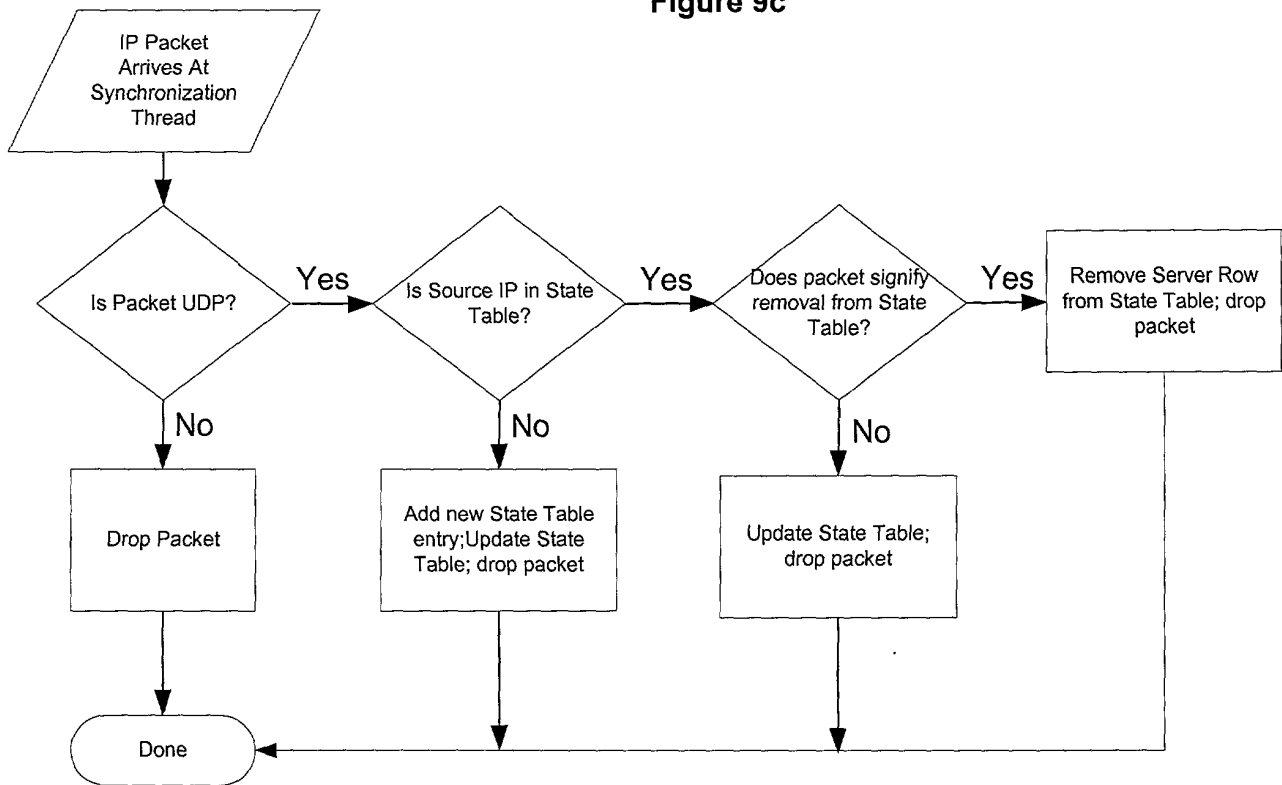
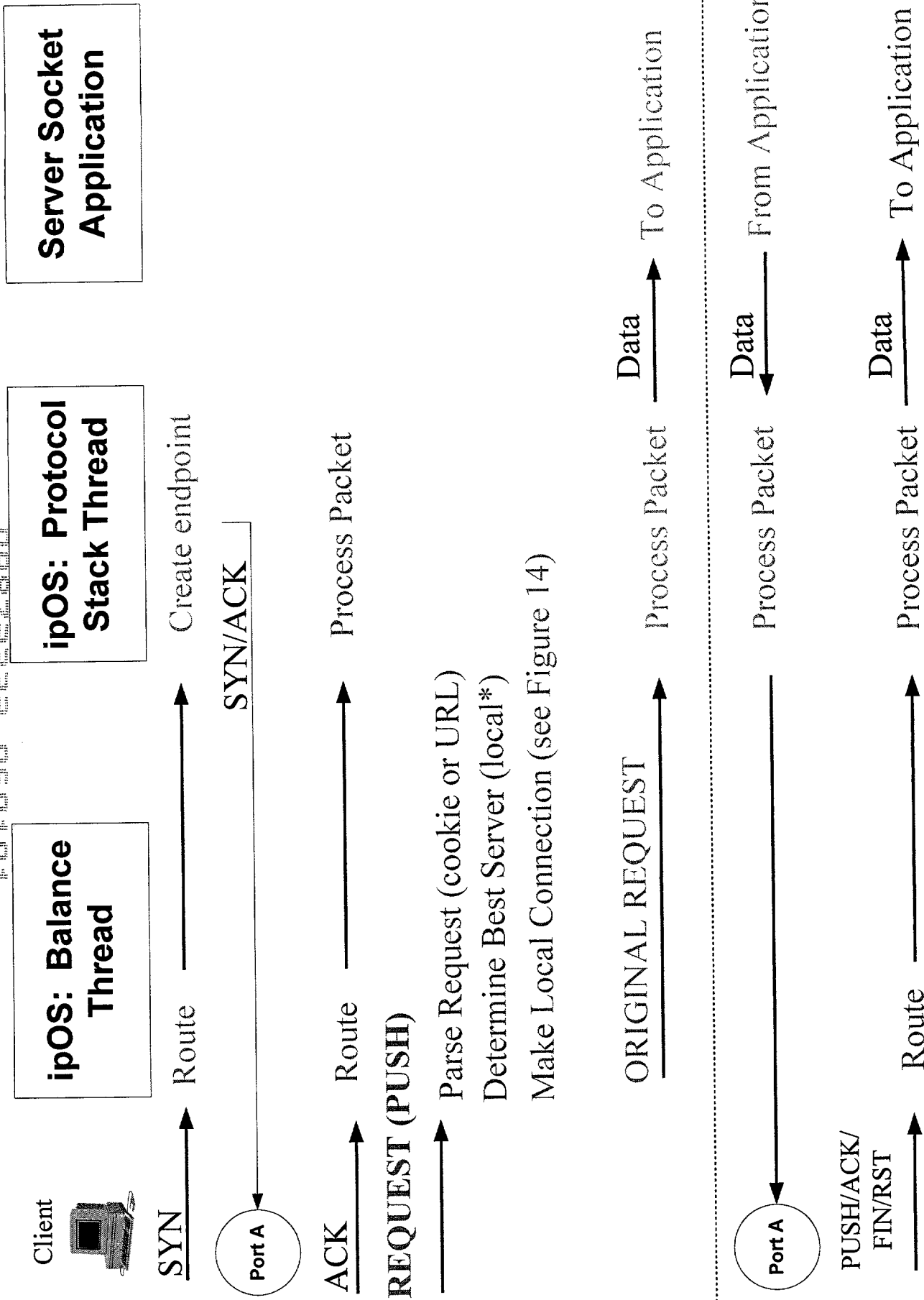


Figure 9c





**Figure 10a**

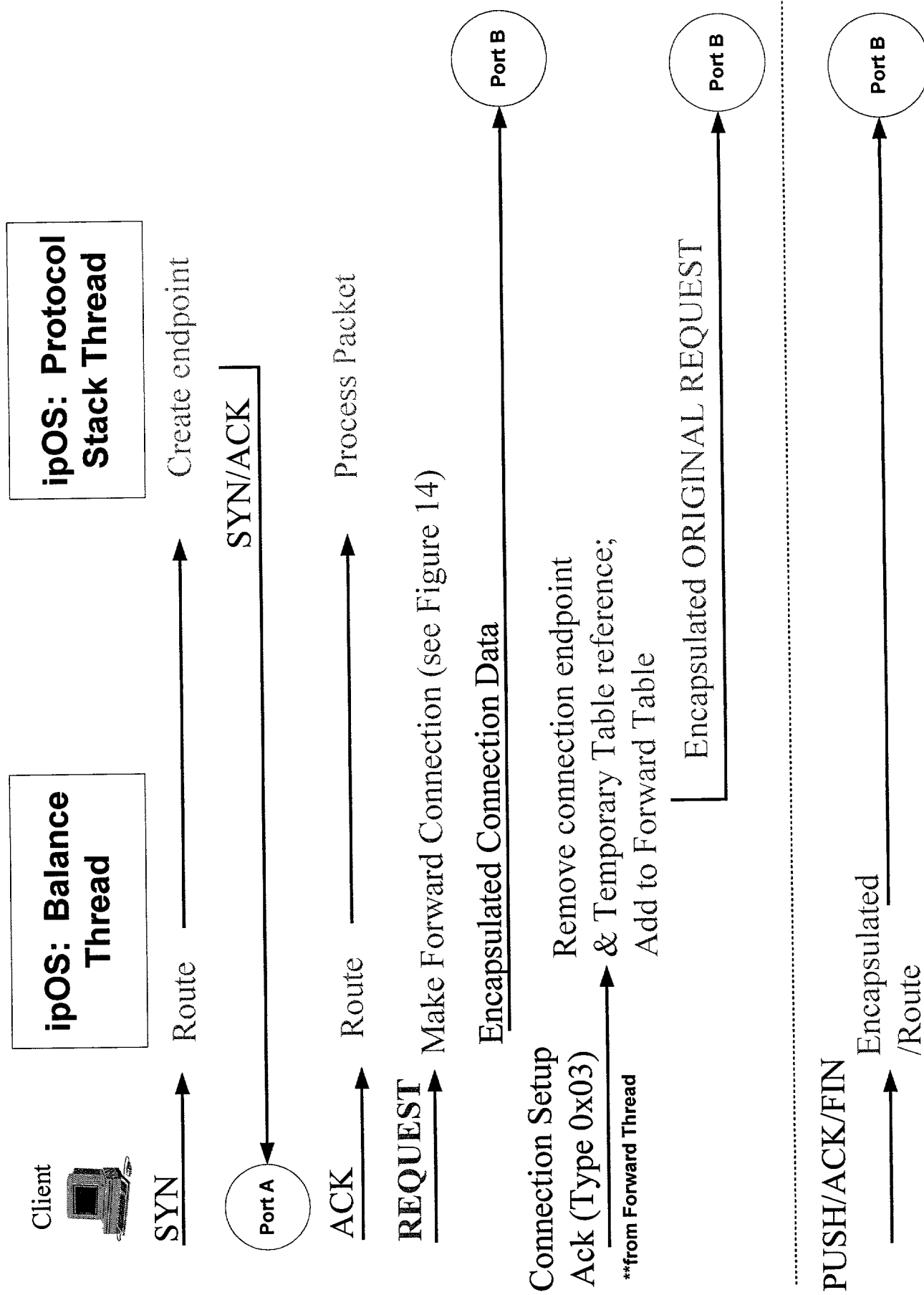


Figure 10b

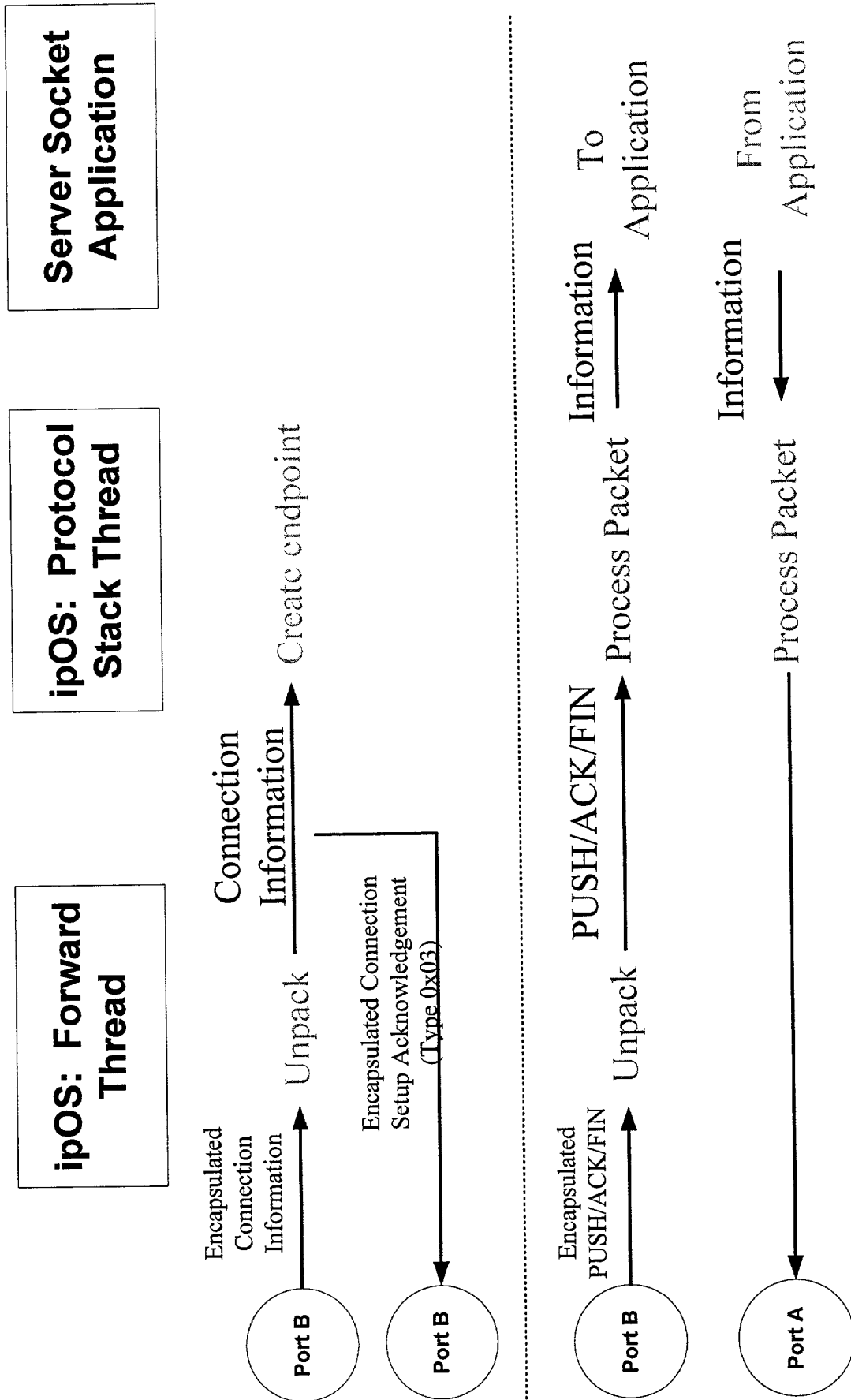


Figure 10c

### Ethernet Encapsulation Header

MAC Destination Address	MAC Source Address	Type 0x007
6	6	2

Figure 11a  
(Prior Art)

### ipOS Encapsulation Header

Source IP	Source Port	Dest. IP	Dest. Port	Type	Protocol	Checksum
4	2	4	2	1	1	2

Figure 11b

### ipOS Connection Information (UDP)

Server IP	Server Port
4	2

Figure 11c

### ipOS Connection Information (TCP)

Server IP	Server Port	TCP Control Block Information
4	2	140

Figure 11d

### ipOS TCP Connection Packet (Type=0x01; Protocol=0x01)

Ethernet Encap. Type =0x007	ipOS Encap. Header	TCP ipOS Connection Information
14	16	146

Figure 11e

### ipOS UDP Connection Packet (Type=0x01; Protocol=0x02)

Ethernet Encap. Type =0x007	ipOS Encap. Header	UDP ipOS Connection Information
14	16	6

Figure 11f

### ipOS TCP Packet (Type=0x02; Protocol=0x01)

Ethernet Encap. Type =0x007	ipOS Encap. Header	IP/TCP Packet
14	16	40 + Data

Figure 11g

### ipOS UDP Packet (Type=0x02; Protocol=0x02)

Ethernet Encap. Type =0x007	ipOS Encap. Header	IP/UDP Packet
14	16	28 + Data

Figure 11h

### ipOS Endpoint Migration Acknowledgement Packet (Type=0x03)

Ethernet Encap. Type =0x007	ipOS Encap. Header
14	16

Figure 11i

FIG. 11

### Forward Table

Key	Field	Description
Yes	Source IP Address	IP address of Client
Yes	Source TCP Port	TCP Port of Client
No	Destination IP Address	IP Address to Forward
No	Destination TCP Port	TCP Port to Forward

### Local/Forward-Connect/Temporary Table

KEY	Field	Description
Yes	Source IP Address	Client IP address
Yes	Source Port	Client TCP Port
Yes	Destination IP Address	Endpoint IP Address
Yes	Destination Port	Endpoint TCP Port
No	Endpoint Reference	Reference to Connection Endpoint

### Server State Table

Key	Field	Description
Yes	Server IP Address	Server
No	Number TCP Connections	TCP Established Connections
No	CPU utilization	Main board CPU utilization
No	Available memory	Unused memory on Main Board
No	Available Bandwidth	Unused Bandwidth Capacity

### Listening Sockets Table

Key	Field	Description
Yes	Server IP Address	Server
Yes	TCP Port	Advertised TCP Port
No	Process	Application process advertising IP/Port

### Application Information Table

Key	Field	Description
Yes	Process ID	Application identification
No	Process memory requirements	Memory required to run application
No	Process CPU Utilization	Measure of application CPU utilization

### URL Map Table

Key	Field	Description
Yes	URL	Universal Resource Locator
Yes	Server IP Address	IP address of associated server

### Cookie Map Table

Key	Field	Description
Yes	Cookie ID	Cookie Identification tag
No	Server IP Address	IP address of associated server

Figure 12

TOP SECRET

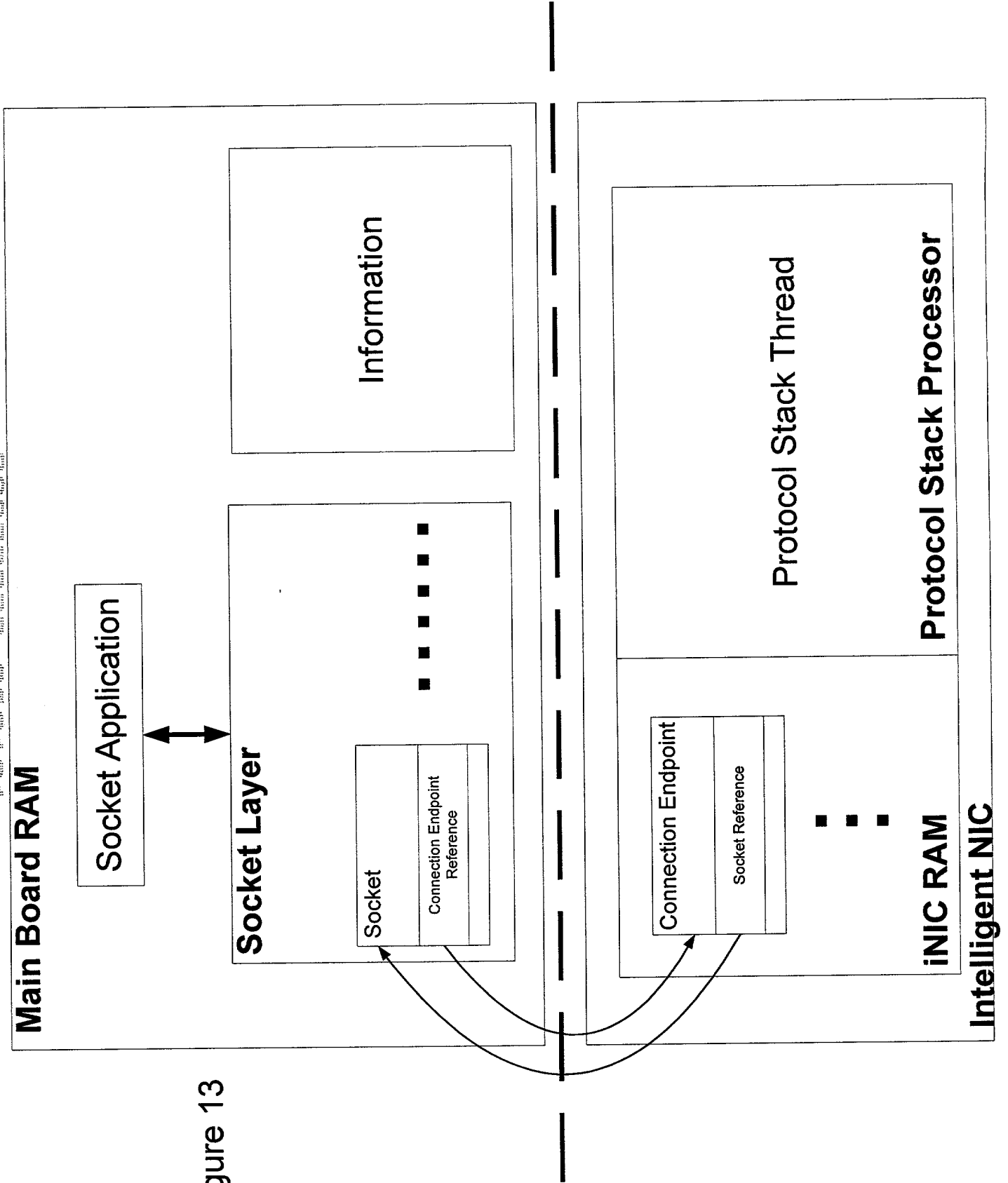


Figure 13



TOP SECRET

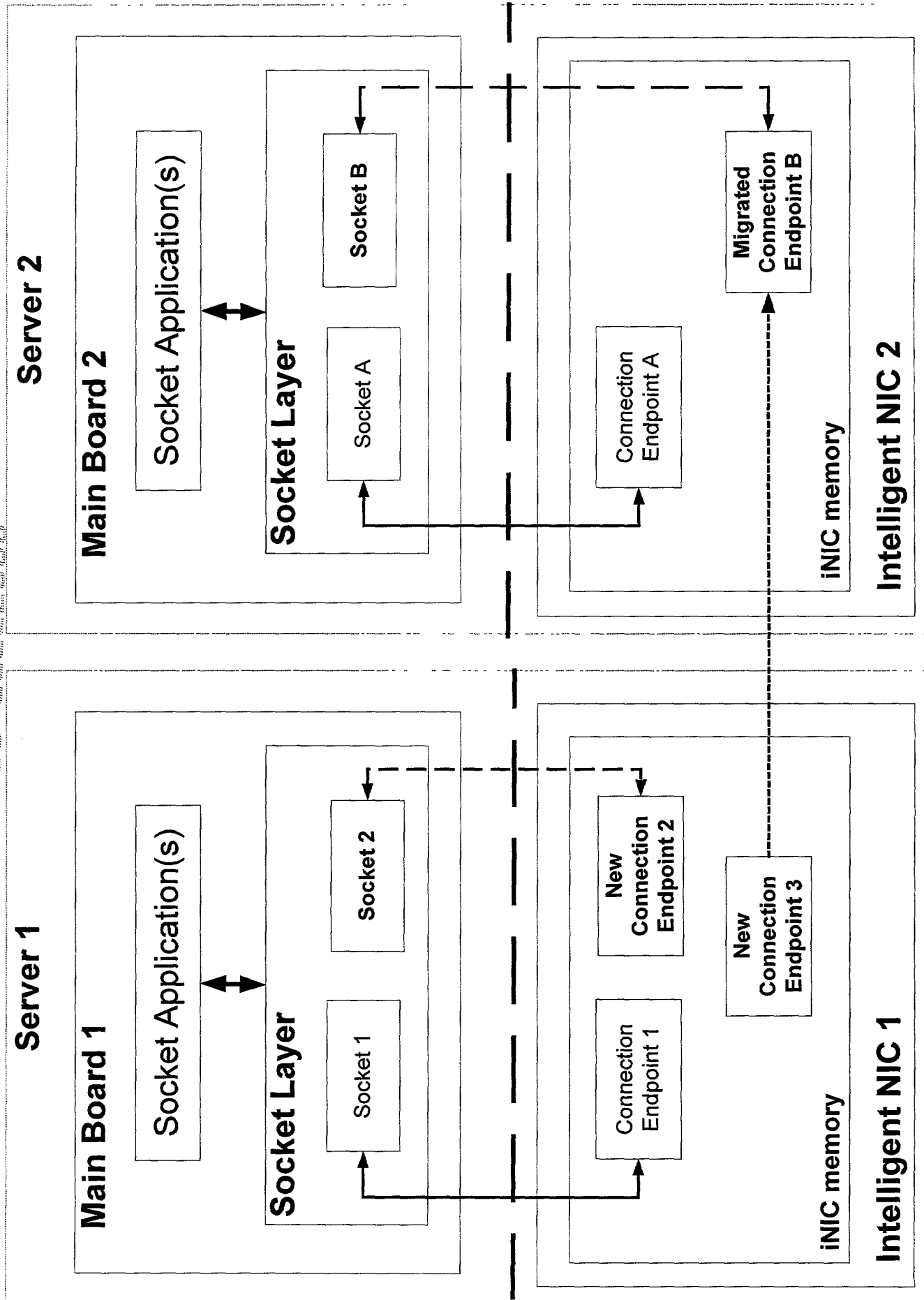


Figure 14

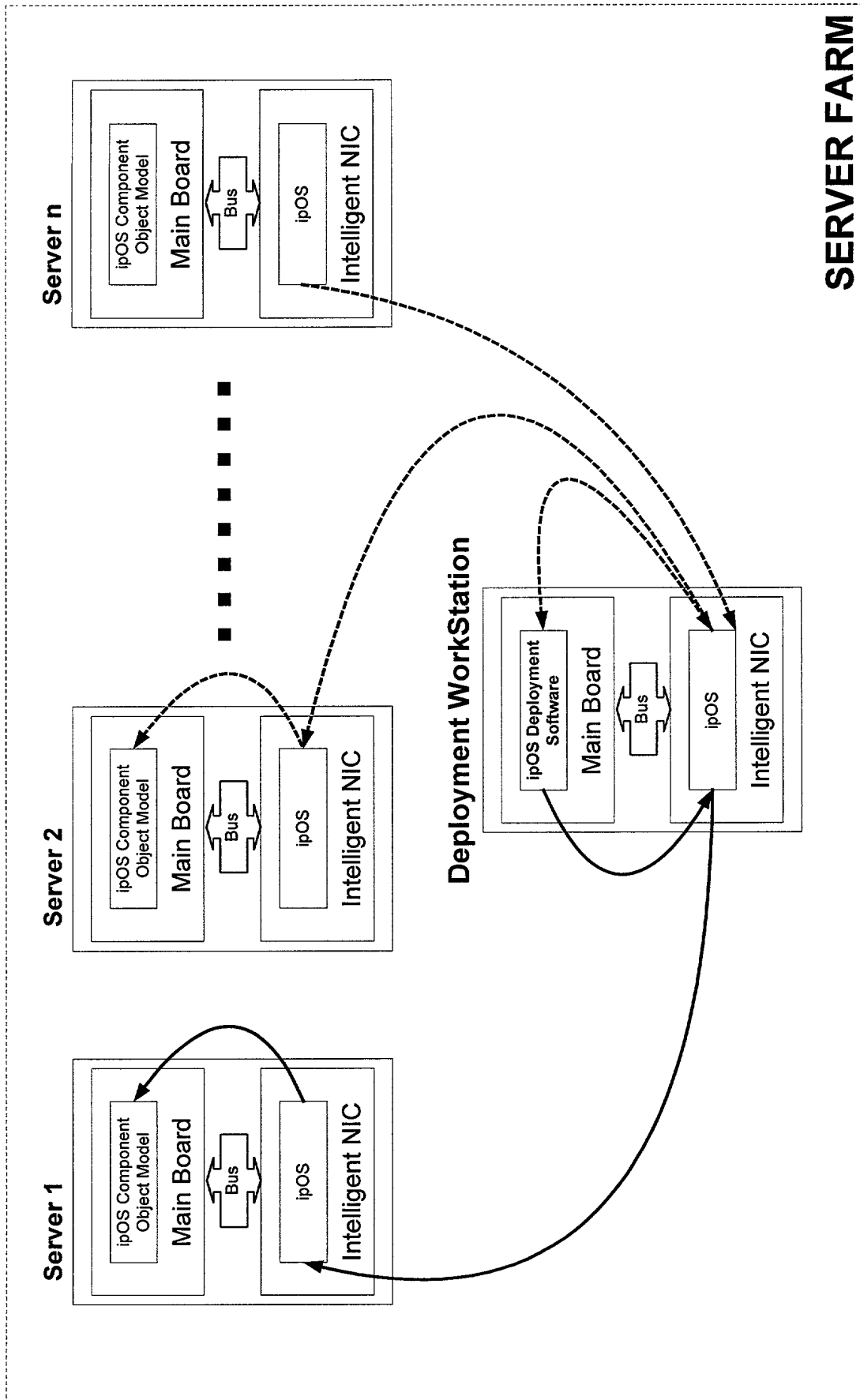


Figure 15

Figure 16

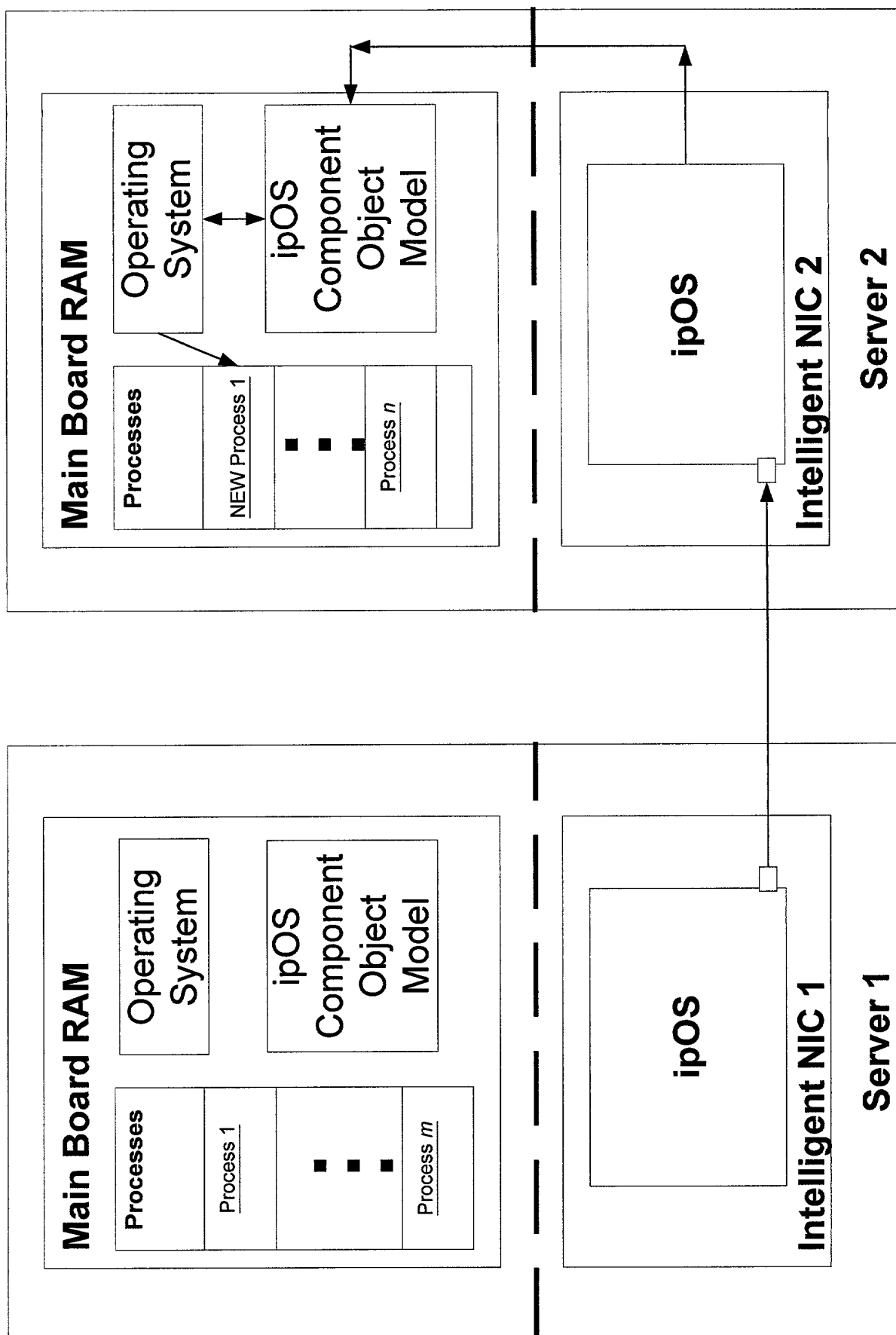


Figure 17

